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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/828,021	04/06/2001	John F. Astorino	60426-236; 2000P07567US01	6386
24500 7.	590 06/29/2004	EXAMINER		INER
SIEMENS CORPORATION INTELLECTUAL PROPERTY LAW DEPARTMENT			GRIER, LAURA A	
	VENUE SOUTH	DEFACINENT	ART UNIT	PAPER NUMBER
ISELIN, NJ (	830		2644	5
			DATE MAILED: 06/29/200	4

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)				
	09/828,021	ASTORINO ET AL.				
Office Action Summary	Examiner	Art Unit				
	Laura A Grier	2644				
The MAILING DATE of this communication Period for Reply	appears on the cover sheet	with the correspondence address				
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION  - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication  - If the period for reply specified above is less than thirty (30) days, and the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by some Any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	ON. R 1.136(a). In no event, however, may n. a reply within the statutory minimum of teriod will apply and will expire SIX (6) Mitatute, cause the application to become	a reply be timely filed  hirty (30) days will be considered timely.  ONTHS from the mailing date of this communication  ABANDONED (35 U.S.C. § 133).	on.			
Status						
1) Responsive to communication(s) filed on _						
- · · · · · · · · · · · · · · · · · · ·	This action is non-final.					
•	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
<ul> <li>4)  Claim(s) 1-20 is/are pending in the applica 4a) Of the above claim(s) is/are with 5) Claim(s) is/are allowed.</li> <li>6) Claim(s) 1-8 and 12-20 is/are rejected.</li> <li>7) Claim(s) 9-11 is/are objected to.</li> <li>8) Claim(s) are subject to restriction are</li> </ul>	drawn from consideration.					
Application Papers						
9)☑ The specification is objected to by the Exam 10)☑ The drawing(s) filed on 06 April 2001 is/are Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11)☐ The oath or declaration is objected to by the	e: a)⊠ accepted or b)⊡ obj the drawing(s) be held in abey rrection is required if the drawin	rance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR 1.121	(d).			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of:  1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International Bu * See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee reau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date 2 and 3.	) Paper N	v Summary (PTO-413) o(s)/Mail Date f Informal Patent Application (PTO-152) 				

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#### **DETAILED ACTION**

## Specification

- 1. The abstract of the disclosure is objected to because the file name listed below the contents of the abstract is not permissible and should be removed. Correction is required. See MPEP § 608.01(b).
- 2. The disclosure is objected to because of the following informalities: page, line 27, the application number of the pending application cited has not been provided.

Appropriate correction is required.

### Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
  - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 18-20 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claims 18, and 19, respectively recite the limitation "said microphone". There is insufficient antecedent basis for this limitation in the claim.

Claims 18-20, respectively recites the limitation "said predetermined system condition".

There is insufficient antecedent basis for this limitation in the claim.

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### Claim Rejections - 35 USC § 102

5. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 6. Claims 1-7, 12-15 are rejected under 35 U.S.C. 102(b) as being anticipated by Shibata et al., U. S. Patent No. 5581619.

Regarding claim 1, Shibata et al. (herein, Shibata) discloses a vehicle internal noise reduction system and method. Shibata's disclosure comprises system with canceling sound means for generating a noise canceling signal (figure 1 - 8/9), means for sensing for a system condition (figure 1-10), wherein noise canceling is interrupted or discontinued base of the sensed conditions (abstract, col. 4, lines 35-55, col. 7, lines 11-15, col. 8, lines 23-31).

Regarding claim 12, Shibata discloses a vehicle internal noise reduction system and method. Shibata's disclosure comprises system with canceling sound means for generating a noise canceling signal (figure 1 - 8/9), means for sensing for a system condition (figure 1 - 10), wherein noise canceling is interrupted or discontinued base of the sensed conditions and the system condition relates to an engine (abstract, col. 4, lines 17-20, 35-55, col. 7, lines 11-15, col. 8, lines 23-31) and Shibata inherent indicates the system condition relates to background noise; and the relation between the background noise and engine noise as evident by the fact that the microphone is positioned in the passenger compartment of the vehicle (figure 1, and col. 4, lines 44-48), where in the microphone pickup is susceptible components location of the microphone,

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and further any noise or factors that generate noise constitutes as background noise, such as the speed/acceleration, etc.

Regarding claim 2, Shibata discloses everything claimed as applied above (see claim 1). Shibata discloses an engine (figure 1 - col. 4, lines 17-20), which relates to engine noise.

Regarding **claim 3**, Shibata discloses everything claimed as applied above (see claim 1). Shibata inherent indicates the system condition relates to background noise as evident by the fact that the microphone is positioned in the passenger compartment of the vehicle (figure 1, and col. 4, lines 44-48).

Regarding **claim 4**, Shibata discloses everything claimed as applied above (see claim 1). Shibata inherent indicates the system condition relates to background noise; and the relation between the background noise and engine noise as evident by the fact that the microphone is positioned in the passenger compartment of the vehicle (figure 1, and col. 4, lines 44-48), where in the microphone pickup is susceptible components location of the microphone, and further any noise constitutes as background noise.

Regarding **claim 5 and 13**, respectively, Shibata discloses everything claimed as applied above (see claim 1 and 12, respectively). Shibata indicates the system condition relating the throttle position by the fact the acceleration and deceleration of the engine is monitored.

Regarding claim 6 and 14, respectively, Shibata discloses everything claimed as applied above (see claim 1 and 12, respectively). Shibata indicates that system senses change of the system condition by continuous monitoring of the acceleration and deceleration of the engine

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with an engine condition judging means (figure 8), so that system is able to update itself upon interruptions.

Regarding claim 7 and 15, respectively, Shibata discloses everything claimed as applied above (see claim 6 and 14, respectively). Shibata indicates that a noise-canceling signal in generated by upon a change in the system via the system ability to reset and updated the filter coefficients (col. 7, lines 11-35).

Regarding **claim 8 and 16**, respectively, Shibata discloses everything claimed as applied above (see claim 1 and 1, respectively). Shibata inherently indicates recording the disablement of the noise-canceling feature as evident by the fact that filters are updated (col. 7, lines 11-65).

# Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. Claims 17-20 are rejected under 35 U.S.C. 103(a) as being unpatentable over Everingham, U. S. Patent No. 5828759 in view of Shibata.

Regarding claim 17, Everingham discloses a system and method for reducing engine noise. Everingham discloses a engine with a housing (10) for receiving an air flow to the engine (abstract), which reads on an air induction means; a speaker (30), which reads on a speaker; and a microphone (42), which reads on at least one sensor (col. 2, lines 20-67). However,

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Everingham, fails to specifically disclose a control unit disabling the noise cancellation feature based upon the system condition.

Regarding the disabling the noise cancellation feature, in a similar field of endeavor, Shibata disclose a noise cancellation system wherein based a sensed condition of the system by the engine condition judging means (figure 8), the noise canceling signal output is discontinued (col. 7, lines 11-29), in which make of the components in figure 8, like the control means constitutes the system as being a control unit.

It would have been obvious to one of the ordinary skill in the art at the time the invention was made to modify the invention of Shibata by implementing a control unit for disabling the noise canceling for the purpose of optimizing the noise cancellation technique through intelligent monitoring and control of the engine of a vehicle.

Regarding claim 18, Everingham and Shibata discloses everything claimed as applied above (see claim 17). Everingham and Shibata disclose a microphone for sensing the noise level.

Regarding claim 19, Everingham and Shibata discloses everything claimed as applied above (see claim 17). Everingham and Shibata discloses a microphone for sensing the background noise level, wherein any noise or factors which generate noise constitutes as background noise, such as an increase in speed/acceleration, vibrations of the components themselves, the air flow, etc.

Regarding claim 20, Everingham and Shibata discloses a microphone for sensing the noise level, and sensing the background noise level, wherein any noise or factors which generate

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noise constitutes as background noise, such as an increase in speed/acceleration, vibrations of the components, the air flow, etc.

9. Claims 9-11 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

#### Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Laura A Grier whose telephone number is (703) 306-4819. The examiner can normally be reached on Monday - Friday, 7:30 am - 4:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Forester W. Isen can be reached on (703) 305-4386.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703) 305-4700.

Laura A. Grie

June 26, 2004